Results of Testing

Chemical Name	CAS No.	Study Code/Type	Protocol/Guideline	Species	Exposure	Dose/Concentration	No. per Group	Results	Reference
Bis(2-ethylhexyl)- terephthalate	6422-86-2	EEATOX Acute fish toxicity	Non-TSCA Protocol/ Guideline (see docket #OPTS- 42039)	Rainbow trout	96 hr, flow-through	0.022, 0.045, 0.090, 0.18, 0.35 mg/L (nominal)	Not specified	Neither mortality nor abnormal effects were observed. Tl 7-day observed No-Effect-Level of the test material was the highest mean measured test concentration, 0.25 mg/	OTS0507302
Bis(2-ethylhexyl)- terephthalate	6422-86-2	EEBIOC Mollusk Biocon- centration study	Non-TSCA Protocol/ Guideline (see docket #OPTS- 42039))	Eastern oysters	38 day, salt water	50 μg/L (nominal)	Not specified	The aqueous ^{14}C -residue concentrations remained relatively constant throughout the exposure period. The mean concentration of 48.4 ± 7.56 µg/L represents 97% the nominal concentration of 50 µg/L. The maximum bioconcentration factor of the ^{14}C -labeled test material was 790. The maximum concentration in the test anim was observed on day 3 of the exposure period. Analysis indicated that 79.4-80.7% of the accumulated ^{14}C -residue the test material, and 19.3 -20.6% were metabolites and/edgradation products.	£#TS0510738
Bis(2-ethylhexyl)- terephthalate	6422-86-2	EECLIF Fish early life stage	Non-TSCA Protocol/ Guideline (see docket #OPTS- 42039)	Rainbow trout	60 day, flow-through	0.014, 0.024, 0.047, 0.15, 0.28 mg/L (mean measured)	Not specified	No effects were noted on hatchability, survival of fry, or growth as measured by length or weight at the limit of solubility. The maximum acceptable toxicant concentration was 0.28 mg/L (measured) at 25EC.	
Bis(2-ethylhexyl)- terephthalate	6422-86-2	EEOTHR Oyster shell deposition test	Non-TSCA Protocol/ Guideline (see docket #OPTS- 42039)	Eastern oysters	96 hr, flow-through	31.2, 62.5, 125, 250, 500 µg/L (nominal)	Not specified	measured was >624 µg/L, the highest concentration	52 FR 2152; 1/20/87, OTS0510737
Bis(2-ethylhexyl)- terephthalate	6422-86-2	EESEED Seed germination study	Non-TSCA Protocol/ Guideline (see docket #OPTS- 42039)	radish, rye- grass, soybean seeds	16 hr light/8 hr dark photoperiod, 14 day	0.15, 1.5, 15, 150, 1500 μg/L (nominal)	Not specified		
Bis(2-ethylhexyl)- terephthalate	6422-86-2	EFBDEG Biodegradation study	Non-TSCA Protocol/ Guideline (see docket #OPTS- 42039)	Not applicable	28 day, shake flask using carbon-free deionized water.	1 mg/L carbon equivalent	Not applicable		50 FR 1892; 5/3/85, OTS0510731

G012 Bis(2-ethylhexyl)terephthalate [6422-86-2]

Chemical Name	CAS No.	Study Code/Type	Protocol/Guideline	Species	Exposure	Dose/Concentration	No. per Group	Results	Reference
Bis(2-ethylhexyl)- terephthalate	6422-86-2	EFPCHEPART Octanol/water coefficient	Non-TSCA Protocol/ Guideline (see docket #OPTS- 42039)	Not applicable	Shake flask, well water and sea water	1% and 0.1% (v/v)	Not applicable	The octanol/water partition coefficient (P) of the test compound, was determined through shake-flask batch extraction and gas-liquid chromatography. A mean P value for well water was determined to be 5.2 x 10 ³ , wit relative standard deviation of 60%. The sea water mean value was found to be 1.8 x 10 ⁵ with a relative standard deviation of 19%.	
Bis(2-ethylhexyl)- terephthalate	6422-86-2	EFPCHEWSOL Water solubility	Non-TSCA Protocol/ Guideline (see docket #OPTS- 42039)	Not applicable	72 hr in environmental chamber at 25 EC using deionized water, well water, or sea water.	Not applicable	Not applicable	The mean solubilities of the test material in sea water, well water, and deionized water were 6.1 ± 0.2 x 10^2 pp 3.5 ± 0.1 x 10^2 ppb, and 15 ± 0.6 x 10^2 ppb, respectively	
Bis(2-ethylhexyl)- terephthalate	6422-86-2	HEADME Pharmacokinetics (Voluntary test)	Non-TSCA Protocol/ Guideline (see docket #OPTS- 42039)	rats	Gavage, single dose	100 mg/kg/body wt.	10 males	About 63% of the administered dose was rapidly hydrolyzed to 2-ethylhexanol (2-EH), mono-(2-ethylhexyl)terephthalate (MEHT), and unlabeled terephthalic acid (TPA). The remainder of the dose was excreted unchanged in the feces. Recovery of the administered dose was as follows: in the urine (31.9% ± 10.9%) and in expired air as \$^{14}CO_2\$ (3.6% ± 0.9%). Major metabolites in the urine included TPA, oxidized metabolites of 2-EH and MEHT, and glucuronic and sulfuric acid conjugates. The total recovery for the dose was 93.0 ± 2.2%. All tissues examined contained \$^{14}C with the highest concentration in the liver and fat. Excretion of 95 and 99% of the total urinary and fecal radioactivity occurred by 24 and 48 hours.	
Bis(2-ethylhexyl)- terephthalate	6422-86-2	HEGTOXCHRM Mammalian cyto- genetic study	Non-TSCA Protocol/ Guideline (see docket #OPTS- 42039)	Chinese hamster ovary cells	in vitro	700, 800, 1000 nL/mL	Not applicable	No significant increases in the frequency of chromosoma aberrations were seen at any dose level with or without metabolic activation.	
Bis(2-ethylhexyl)- terephthalate	6422-86-2	HEGTOXMUTA Mutagenicity study	Non-TSCA Protocol/ Guideline (see docket #OPTS- 42039)	Salmonella typhimurium	in vitro	0.32-1000 μg/plate	Not applicable	The tested strains used were TA98, TA100, TA1535, TA1537, and TA1538. The test material was not mutagenic when assayed in the presence or absence of metabolic activation.	50 FR 46699; 11/12/85, OTS0510734
Bis(2-ethylhexyl)- terephthalate	6422-86-2	HEGTOXMUTA Mutagenicity study	Non-TSCA Protocol/ Guideline (see docket #OPTS- 42039)	Chinese hamster ovaries (CHO)	in vitro	1.25, 2.5, 10.0, 20.0 nL/mL	Not applicable	Treated non-activated cultures had cell survivals relative to the solvent control (dimethyl sulfoxide) of 82.3, 87.9 6.7, 72.9, and 69.2% respectively. Activated cultures had cell survivals of 106.7, 106.3, 114.4, 91.7, and 99. respectively. The test material did not produce mutant frequencies significantly greater than the solvent control either with or without metabolic activation.	2/24/86, OTS0206697

G012 Bis(2-ethylhexyl)terephthalate [6422-86-2]

Chemical Name	CAS No.	Study Code/Type	Protocol/Guideline	Species	Exposure	Dose/Concentration	No. per Group	Results	Reference
Bis(2-ethylhexyl)- terephthalate		HESTOX Subchronic oral toxicity	Non-TSCA Protocol/ Guideline (see docket #OPTS- 42039)	rats	Oral (dietary), 90 day		and females	treated groups compared to the controls in the following	OTS0510735